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IN THE ABSTRACT

Please replace the original Abstract with the following:

ABSTRACT

In a PLL circuit, and a wireless mobile station with that PLL circuit, an LPF charging constant current source, a discharging constant current source and a high-speed charging constant current source are connected to an output terminal of a phase comparator with current mode output. When a convergence frequency of the PLL circuit is low, an input voltage of a VCO is increased from 0V so as to be converged by using the constant current source. However, when the convergence frequency of the PLL circuit is high, the input voltage of the PLL circuit is temporarily increased to the maximum voltage by using the constant current source. Thereafter, the input voltage is gradually dropped from the maximum voltage so as to be converged by using the constant current source.